

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 15, line 15, with the following rewritten paragraph.

-- The fingerprint identification apparatus identifies a binary image obtained when a finger is placed on the prism 12 in the fingerprint identification block 8 and identifies the individual. When the individual is identified, the encryption block 2 uses the private key D to encrypt the message. Here, the fingerprint identification apparatus is connected via the interface block 7 6 to a personal computer (not depicted) and the message has been transmitted via the interface block 7 6 from the personal computer. --

Please replace the paragraph beginning at page 19, line 10, with the following rewritten paragraph.

-- Here, in the first to the seventh horizontal direction summing blocks 28, 29, 30, 31, 32, 33, and 34, first to seventh D flip-flops 41, 42, 43, 44, 45, ~~46~~ 56, and 47 having an input data of 8-bit width are connected in series so that outputs from the first to the seventh D flip-flops 41, 42, 43, 44, 45, 46, and 47 are added by an adder 48. --